

ABSTRACT OF THE DISCLOSURE

There is provided a voltage controlled oscillation (VCO) circuit which can adjust the oscillation frequency without trimming and a semiconductor integrated circuit for communication comprising the same VCO circuit, wherein as the VCO circuit forming the PLL circuit, an LC resonance type oscillation circuit is used in which a plurality of capacitance elements are connected in parallel via a selection means such as a switch and the oscillation frequency is varied by changing the circuit constant (LC) depending on the selecting condition of the selecting means, moreover a comparing circuit for comparing the control voltage supplied to the VCO circuit from the loop filter of PLL circuit with the reference voltage and a frequency adjustment circuit for generating the signal to control the selecting means based on the comparison result of the comparing circuit are also provided to determine the signal to control the selecting means through the sequential comparison.